Bakersfield to Palmdale Supplemental Alternatives Analysis February 2012







Section Description

Bakersfield to Palmdale

Three Subsections

Edison:

11.2 miles

Tehachapi:

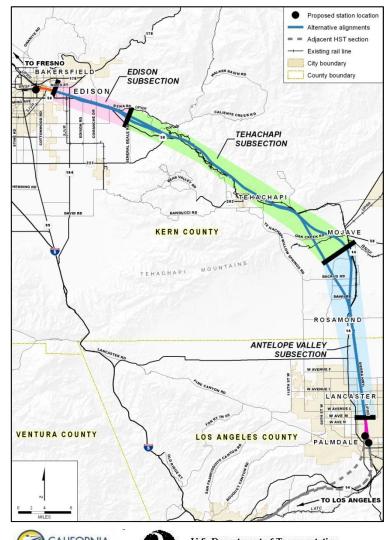
40.5 miles

Antelope Valley:

25.6 miles

Tie-in to Bakersfield Station

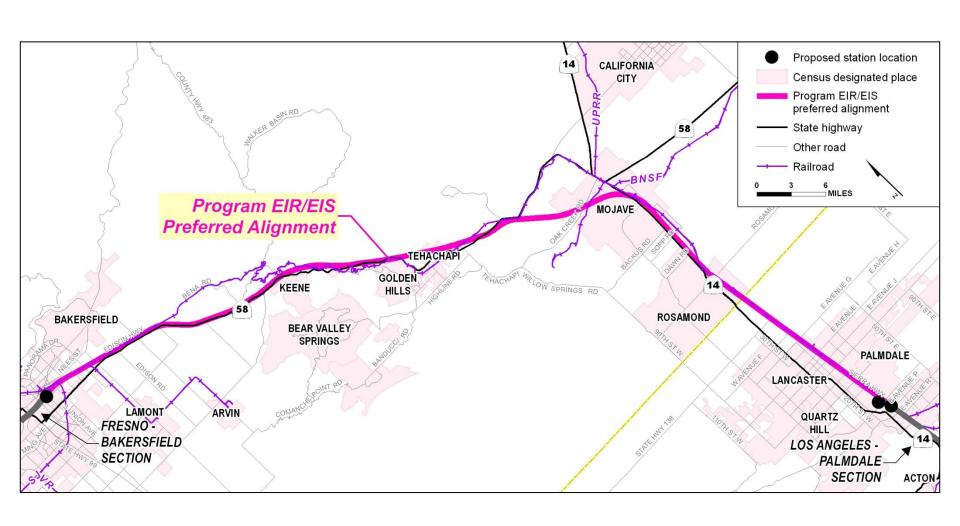
Tie-in to Palmdale Station



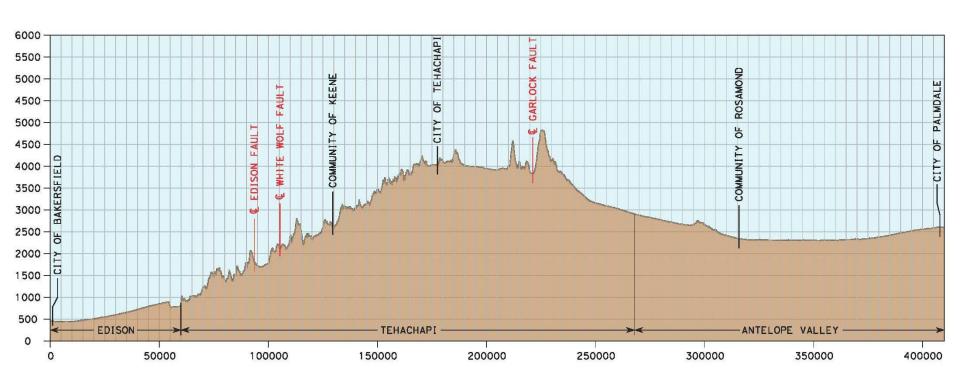




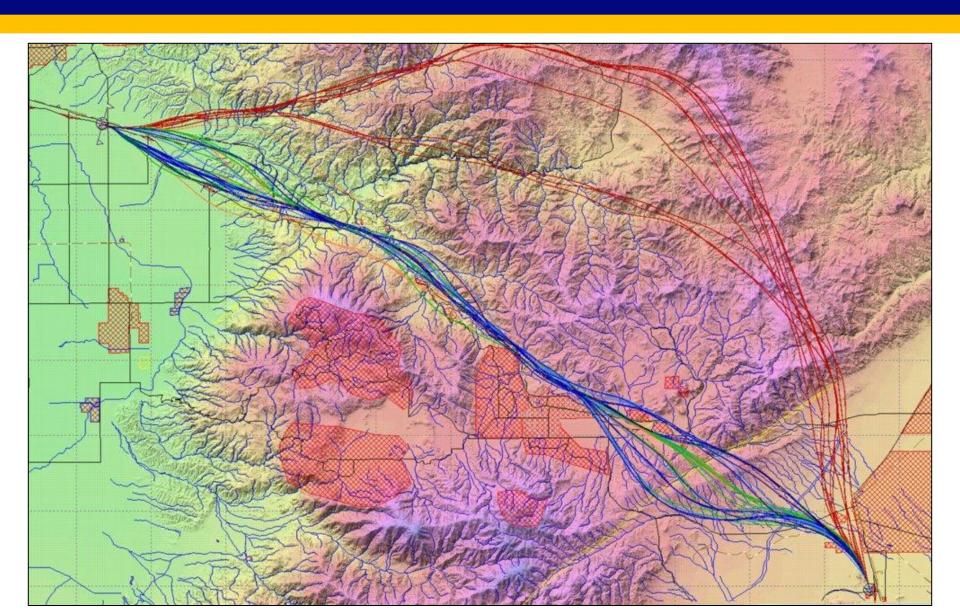
Programmatic Alignment Bakersfield to Palmdale



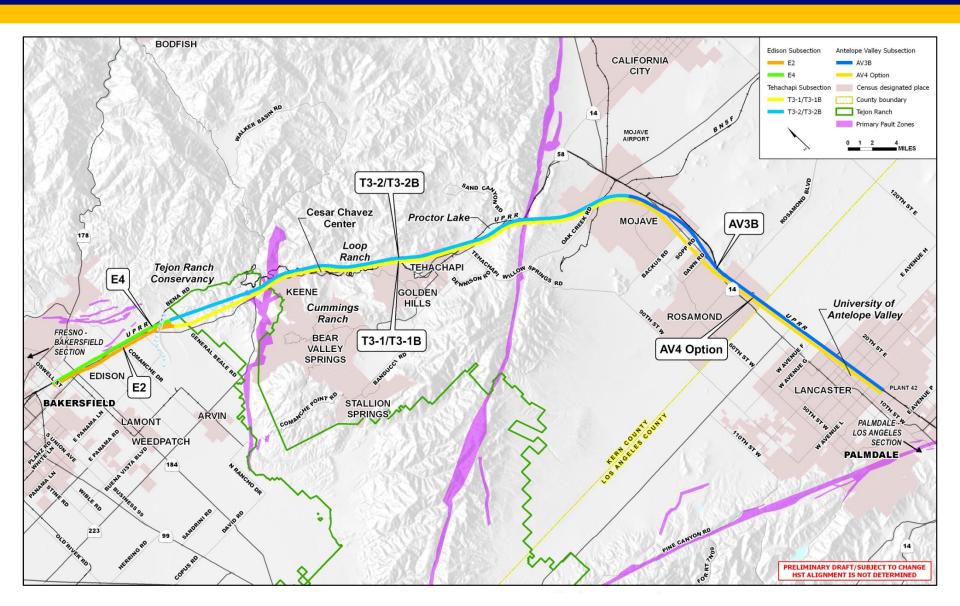
Bakersfield to Palmdale Topographic Profile



Quantm-Generated Alignments



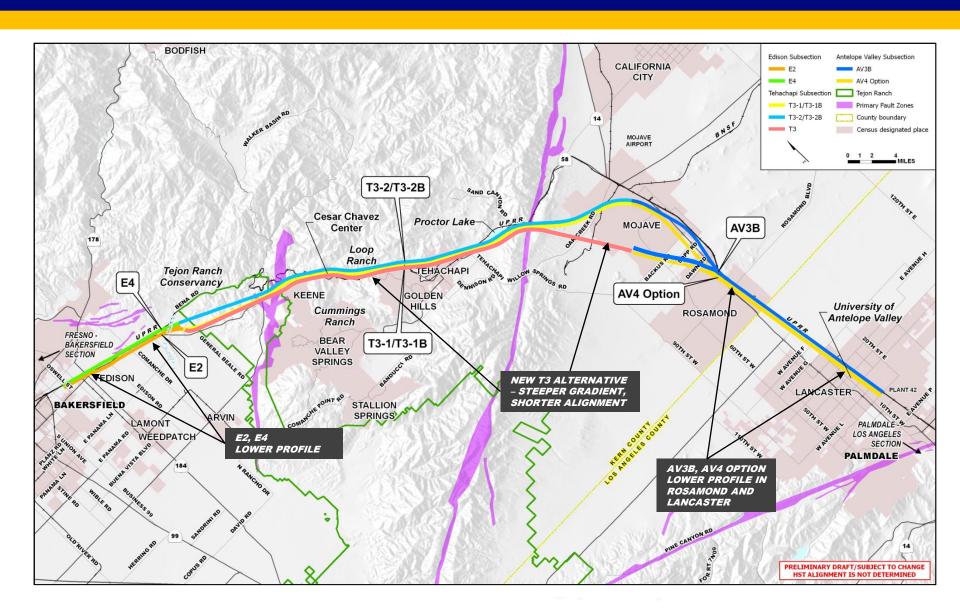
Previously Advanced Alignments (Preliminary AA - September 2010)



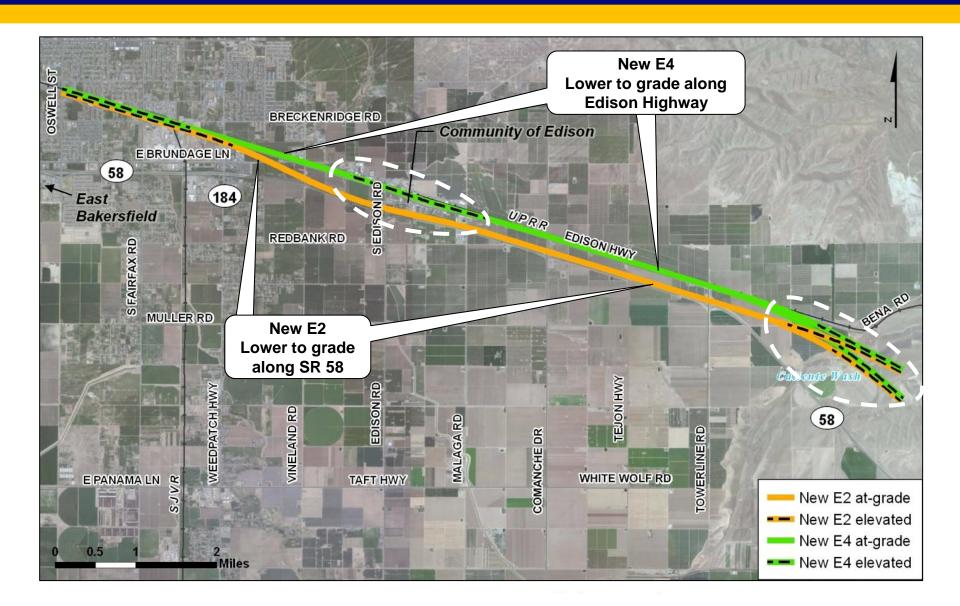
Supplemental Alternatives Analysis Study Objectives

- Reduce Environmental Impacts
- Address Stakeholder Concerns
- Contain Cost
 - Lower Profiles
 - Reduced Viaduct/Tunnel Length
 - Shortened Alignment

Modifications to the Alternatives



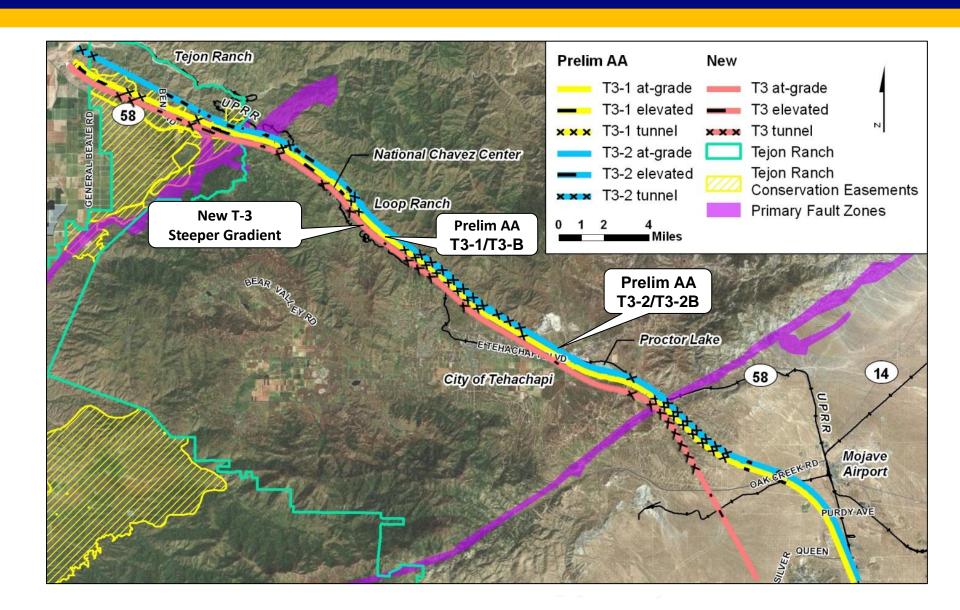
Modified Edison Alignments



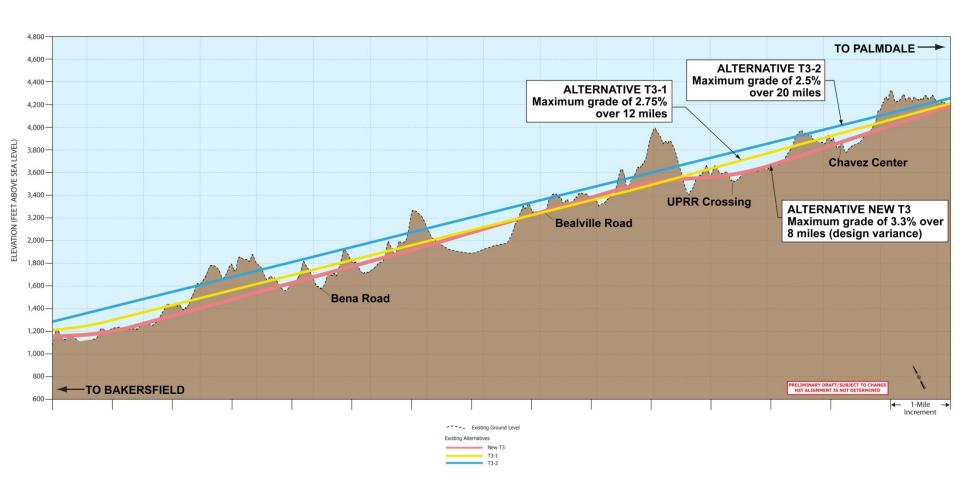
Viaduct Illustration



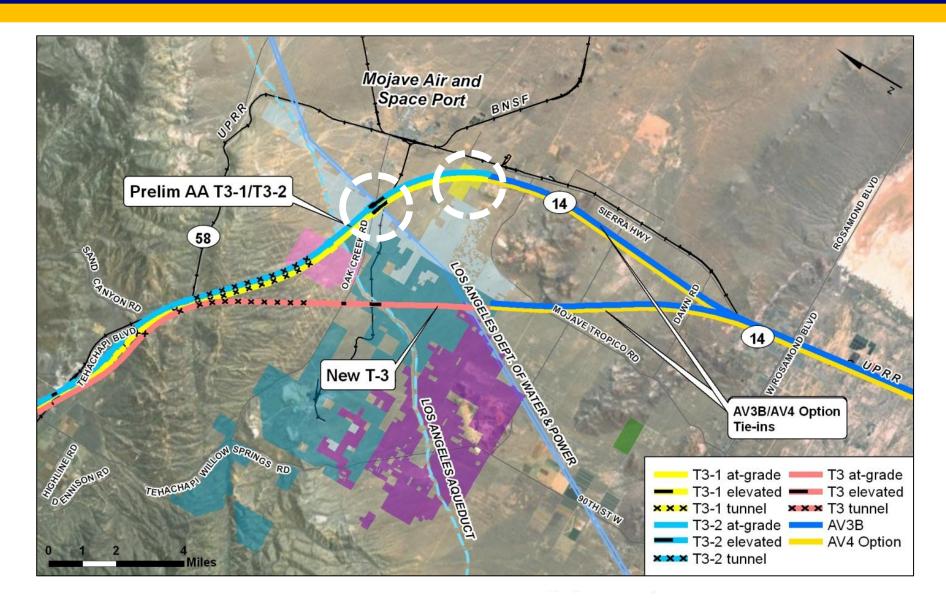
New Tehachapi Alternative (T3)



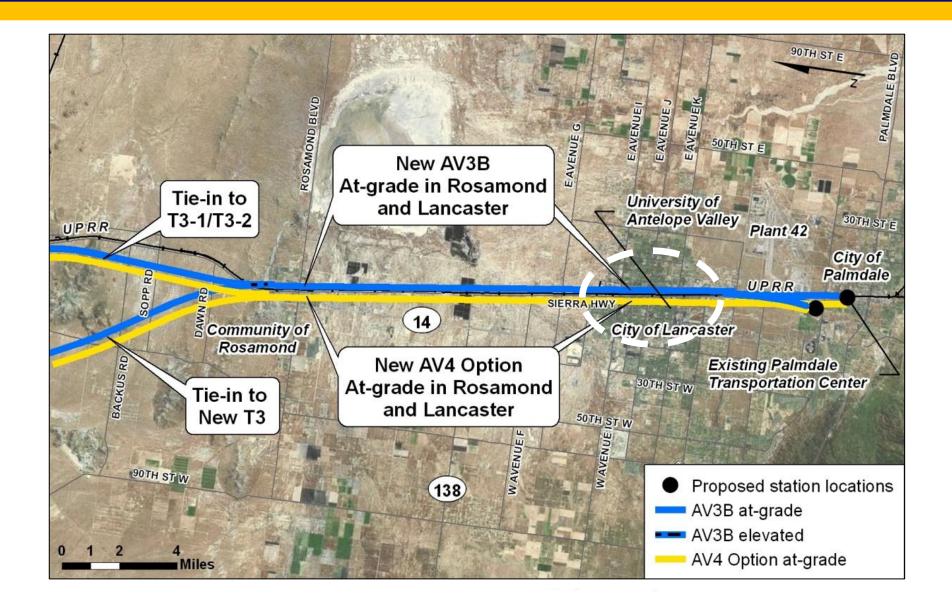
Tehachapi Alternatives New T3 Steeper Gradient



Tehachapi Alternatives Shorter New T3 Alignment



Modified Antelope Valley Alignments



Next Steps

We Are Here

Approve SAA
Alternatives
to Move
Forward to
the Draft
EIR/EIS

Prepare and Issue 15% Design Set and Draft EIR/EIS

Draft
EIR/EIS
Public
Comment
Period

Decision by the CAHSR Board on Preferred Alternative

Publish FINAL EIR/EIS of
FINAL EIR/EIS
by CAHSR
Board

FRA
Issues
Record of
Decision

Recommendations for Edison Alignments

- Carry forward
 Preliminary AA E2B
 (elevated) and New
 E2 (at-grade) to
 determine the
 optimal profile
- Carry forward
 Preliminary AA E4
 (elevated) and New
 E4 (primarily at-grade) to determine
 optimal profile
- Withdraw
 Preliminary AA E2A

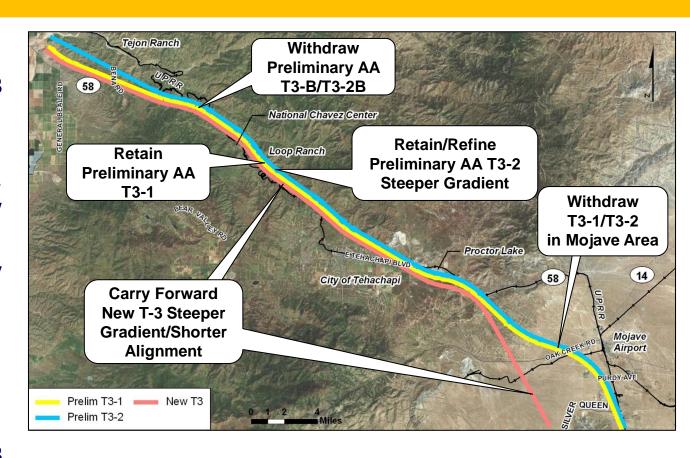


Recommendations for Tehachapi Alignments

Tehachapi Incline Area:

- Carry forward New T3
 (red) and Preliminary
 AA T3-1 (yellow)
- Refine Preliminary AA
 T3-2 (blue) using New
 T3 gradient variance
- Withdraw Preliminary
 AA T3-B and
 Preliminary AA T3-2B
 (phase break
 alternatives)

Mojave Area:



Recommendations for Antelope Valley Alignments

- Carry forward
 Preliminary AA AV3B
 (primarily elevated)
 and New AV3B (atgrade) to determine
 the optimal profile and
 shared use of UPRR
 right-of-way
- Carry forward
 Preliminary AA AV4
 (primarily elevated)
 Option and New AV4
 Option (at-grade) to determine the optimal profile

